DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	: W22	IE3 Three-	Phase		Pi	roduct co	ode :	12862	549	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 225S/M : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N			Mounting: B5TRotation1: BothStarting method: DireApprox. weight3: 390			: B5T : Both : Direc : 390 k	h (CW and CCW) ect On Line	
-			45		45	1	45	1		45
Output [kW] Poles		45		45 4			45 4		45	
Frequency [Hz]		50			50		50			60
Rated voltage [V]		380/660		400/690			415		460	
Rated current [A]		86.4/49.7		84.1/48.8			83.1		73.4	
L. R. Amperes [A]		631/363		656/380			690		661	
LRC [A]		7.3		7.8			8.3		9.0	
No load current [A		36.0/20.7		40.0/23.2			42.0		37.0	
Rated speed [RPN	1]	1482		1485			1485		1787	
Slip [%]			.20		1.00		1.00			0.72
Rated torque [Nm]		290			290		290			241
Locked rotor torqu			250		280		300		350	
Breakdown torque	[%]	280			310		340		380	
Service factor		1.00			1.00		1.00		1.00	
Temperature rise		80 K		14- (80 K		80 K 14s (cold) 8s (hot)		80 K 16s (cold) 9s (hot	
Locked rotor time Noise level ²		16s (cold) 9s (hot) 63.0 dB(A)			14s (cold) 8s (hot) 63.0 dB(A)		4s (cold) 63.0 dE			0 dB(A)
	25%	03.0		0	5.0 UD(A)		03.0 dE	J(M)	07.	
	50%	c	93.8		93.5		93.0			93.0
Efficiency (%)	75%		94.0		94.1		94.1			94.5
	100%		94.2		94.1		94.2			95.0
	25%		01.2		-		-			
	50%	C).70	0.65			0.62			0.64
Power Factor	75%		0.80		0.77		0.75			0.75
	100%	C).84		0.82		0.80		0.81	
Losses at normat	ve operating	points (sp	eed:toraue) i	n perce	ntage of rate	ed output	power			
		9;1,0) 5.9			5.9		5.9			5.0
		5;1,0)	5.0	5.0)	5.0			4.3
		25;1,0)	5.0		5.0		5.0		4.2	
Losses (%)		9;0,5)	2.8	3 2.		8 2.8		2.8		2.4
		5;0,5)	1.9		1.9		1.9			1.6
		5;0,25)	1.2					1.2		1.1
	P7 (0,2	5;0,25)	0.9		0.9			0.9		0.7
Bearing type Sealing Lubrication interval Lubricant amount		<u>Drive 6</u> : 6314 : Oil S : 1400 : 27	4 C3 6314 C3 Seal Oil Seal 00 h 14000 h g 27 g		Foundation loads Max. traction Max. compression			: 8360 N : 12185 N		
Lubricant type This revision repla	aces and can		obil Polyrex E		These are	averade	values b	ased on te	sts with s	inusoidal
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	d. otor from the m and with to veight subjec ocess.	shaft end. olerance of	f +3dB(A).					tolerances		
Rev.	Changes Summary				Performed Checke		d	Date		
Performed by										
Checked by								Page		Revision

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Notes

Rev.		Changes Summary	Performed	Checked	Date
Dorformed by					
Performed by					
Checked by				Page	Revision
Date	30/08/2023			2/3	

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ID	Application	Quantity	Sensing	Temperature	
1	Winding	Type Thermistor - 2 wires	1 x Phase		55 °C
·					
					1
Rev.	Chan	ges Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
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